



The AIRSLetter is a quarterly publication produced by the Environmental Protection Agency, Office of Air Quality Planning & Standards, Information Transfer & Program Integration Division. It is intended to provide information and emerging issues related to the Aerometric Information Retrieval System (AIRS).

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Notes From IMG

by Ed Lillis

I encourage you to read all the articles in this news letter but I did want to highlight a few items for your information.

Since the last Newsletter, we have made a great deal of progress on the AQS Re-engineering project. Comment forms have been sent to State and local agency and EPA users. We also held a 2 ½ day AQS workshop in Durham, N.C. attended by over 100 folks. As a result, we have received a large number of constructive comments. We are now planning to form an advisory group to keep the good ideas flowing. Andrea Kelsey's article on page 2 provides more details about the project.

We are also nearing completion of the new batch process for AFS and will soon begin training for the Regions, States and locals. Chuck Isbell's article on page 4 discusses our training plans for the batch.

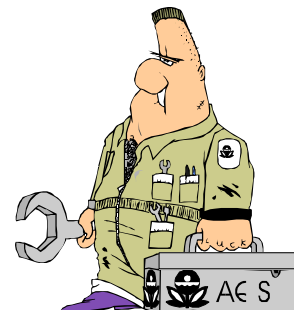
We are continuing to explore what to do about modernizing AFS- both the emissions and compliance sides of AFS- but have not made final plans. We want to take advantage of the good work that the EIIP Data Management Committee has done in developing a standard data model and data transfer format. Lee Tooley's article on page 11 discusses the status of the EIIP project and future plans.

I hope the Newsletter is informative and helpful. If you would like to share information about what you are doing with the rest of the AIRS community, please send us a brief article that we can include in a future edition.

AQS Re-engineering Design Workshop Held

by Andrea Kelsey

Over 100 people attended the AQS Re-engineering Design Workshop May 14 - 16 in Durham. The OAQPS AQS Re-engineering Team (ART) worked very hard to make this workshop a success along with Jerry Husketh, who handled the administrative details and hotel arrangements for this meeting. The purpose of this workshop was to obtain input and feedback from the end users on various aspects of re-engineering this computer system. There were representatives from EPA OAQPS, EPA Regions, State and Local Agencies, Academia, Contractors, and even Canada's Department of the Environment.



The workshop was basically broken down into 5 half day sessions. The Tuesday morning session started things off with a Mary Nichols video welcoming the participants and talks by Bill Hunt and Bob Kellam. Presentations followed on Project Overview and Proposed Architecture, by Andrea Kelsey, and User Interface, by Bonnie Johnson. The highlight of the morning session was a presentation and demo of client server technology and end user tools by representatives from the Oracle Corporation.

Three major aspects of this re-engineering project were addressed on Tuesday afternoon and Wednesday. The attendees were divided into two groups to encourage discussions on these topics. These sessions were 1) Data Dictionary, "What should be stored in the new system?" lead by Jake Summers, Joe Elkins, Terence Fitz-Simons, and Tom Rosendahl, 2) Update, "How should we get data into the database?" lead by Andrea Kelsey, Bonnie Johnson, and David Lutz, and 3) Outputs, "How should we get data out of the database?" lead by Jonathan Miller, Barry Gilbert, Tom Link, and Don Worley. All of the discussion leaders are the ART members.

The last morning was a wrap-up session where the ART members reported to the attendees "What we have heard from you during this workshop". As each topic was addressed there was time allotted to discuss any lingering issues, suggestions or concerns. For additional detailed information on this workshop, please access the AIRS Home Page on the Internet and/or the TTN.

The discussions, ideas and suggestions that were made during this workshop have provided the ART with valuable information that will be used when making future decision concerning this project. An advisory group will be formed soon consisting of EPA Regions and State and Local agency representatives to help us in designing and developing this new system.

We are encouraged by the interest, dedication and enthusiasm of the attendees of this workshop. It is important to have the opportunity to meet face-to-face with the end users. We are pleased that this workshop successfully achieved its goal of obtaining critical feedback for this project, and in the process, created an atmosphere for informal interactions that are valuable in forming long-lasting working relationships.

KEY IDENTIFIERS INITIATIVE

by Diane Sheridan, OPPTS

WHAT IS THE KEY IDENTIFIERS INITIATIVE?

The Key Identifiers Initiative, a product of the Agency's reinvention efforts is intended to produce a single, authoritative set of facility information for public, state and EPA use. The

Continued from "Key Identifiers Initiative" - Page 2

project is the foundation for another proposed initiative, the One Stop Public Access and Reporting Initiative, one of the 25 EPA-based regulatory reforms announced by the Administration in March 1995. The One-Stop Initiative has three major components: 1) streamlined reporting, 2) enhanced public access, and 3) electronic reporting. As a critical first step, the Key Identifiers Initiative will lay the groundwork for achieving one-stop reporting and public access.



HOW IS THE KEY IDENTIFIERS INITIATIVE BEING DEVELOPED?: A project workgroup, led by the Office of Prevention, Pesticides, and Toxic Substances (OPPTS), has been established. The workgroup includes representatives from all EPA program offices (including Regions 1,5,9,10) and two state environmental programs that perform major information collection activities. The workgroup planned to publish an Advanced Notice of Proposed Rulemaking (ANPR) concerning key identifiers for public comment in the Federal Register in the Spring of 1996, and a proposed rule is contemplated for early in 1997.

HOW CAN THE REGIONAL OFFICES PARTICIPATE IN THE KEY IDENTIFIERS INITIATIVE?: Due to the cross-media nature of the Key Identifiers Initiative its success is dependent upon Regional awareness and participation from all levels of staff and management. To accomplish such a monumental task, involving communications and coordination cross-media in the Region, establishing a single point of contact per Region would ensure that:

- 1) Regional review and input is pervasive across all media offices;
- 2) States are the Agency's partners in this endeavor, establishing a single point of contact per Region would ensure States in the Region have ample opportunity to participate in the initiative.



AQS Re-Engineering Project Notes Placed on Website

by Tom Link

What Is It?

It's a World Wide Web site on the INTERNET that we've constructed to help keep you up to date on what's happening on this project. The address is:

<http://www.epa.gov/airs/reeng/main.html>

and there's a hypertext link from the main AIRS Website page, which is at

<http://www.epa.gov/airs>

We plan to post everything you ever wanted to know about the project, how things are going, schedules, opportunities for you to be involved in the process and more. Take a look and let us know of other kinds of information you'd like to see at this site in the future.

AFS News

AFS Batch Update Improvement Task

by Chuck Isbell

The new batch system is scheduled to go into production at the end of August 1996.

While the Lockheed Martin team works diligently to produce boxes and boxes of test results, the rest of the AFS Batch Update Team is busy reviewing and commenting on those reams of paper. To add to the testing frenzy, TRC has also produced several boxes of test results for the new Compare Processor they are enhancing. You may recall that the Compare Processor is being enhanced to (1) accept compliance and permit transactions as it currently does for emission transactions, (2) accept the new AFX transaction formats, (3) provide neck-down delete capability for emissions data, and (4) create a stand alone file to be used for EDIT and UPDATE. The enhanced Compare Processor is scheduled to go into production along with the new batch update software in August.



Training.....On June 11, the batch team presented conference phone training to the EPA Regional Contacts. We felt that this training could serve as a sounding-board and provide us the feedback we needed to finalize the training document and the training process via conference phone calls. In-lieu-of being able to provide onsite training for all the regions, the plan is to provide a half-day 1-on-1 region/state training via conference phone. Training materials will be distributed before the training session and hands-on exercises will be made available in the NATQ training environment. The training will be geared to those users already experienced in using the existing AFS batch update. We will be working with the regions to schedule training for their states and locals during August. One exception: we will be providing onsite training for the Region 2 and 3 users at the Region 3 AFS Workshop (July 25-26) in Philadelphia.

The new AFX transaction formats are an expanded format designed to accept the 15-character plant-ID, and a 5-character stack, point, and segment ID. The expanded stack, point, and segment ids anticipate a future mod to AFS to expand existing key field sizes.

Now that I have told you about the new (optional) AFX transaction format that will be available, I should remind you that the old NEDS and CDS transaction formats will no longer be supported once the new batch update goes into production.

The new batch edit and update software being developed will allow emission users to increment the year-of-record without carrying forward the emissions data (i.e., neck-down delete). Currently, users have two options for carrying forward emissions data: (1) all emissions data (both annual and SIP) or (2) only annual inventory data. A third option, "no emissions data," will be added. Choosing this option will result in a neck-down delete. All three year-of-record increment options will be available on the EDIT, UPDATE, and COMPARE submittal screens.

CFR Subpart Data Element Boo-Boo

by Mark Antell

During the month of May, a problem was reported which involved the potential loss of information stored in the new AFS air program subpart fields, when air program data was submitted through the nightly processor.

The problem was isolated quickly, and thanks to the rapid response of all, a correction was made and installed into production within two weeks.

As soon as the problem was identified, Regional compliance managers were also notified, to prevent any further problem.

If you have reported data to AFS subpart elements under air programs for NESHAP (8), MACT/NESHAP (M), or NSPS (9) and have also submitted any other data to those air programs through the batch submittal process, it would be prudent to spot-check your facilities to be sure the data is still properly recorded.

If you would like further clarification of the exact scenario which endangered CFR subpart data, please call the AFS helpline at (800)367-1044.

If you haven't heard of this enhanced capability yet, or would like more information on the many benefits of tracking CFR Subpart using AFS, a good starting place would be the last AIRSLetter, where we noted it's many uses.



Source Classifications In AFS

by Mark Antell

In April, 1993, the EPA released guidance redefining major sources and valid source classification codes in AFS. The new codes were added to the AFS table file, and AFS users were advised to begin using the new codes when entering new facilities, and to convert the now obsolete codes as soon as was convenient.

Mass adjustments in AFS in a timely manner required new software to calculate EPA and State pollutant classifications, based on known emissions and attainment data (plant and air program pollutant level classifications in AFS are not entered at that level, but is rather a reflection of the most significant value found at the air program pollutant level.) At the same time, compliance personnel did not wish classifications to be regenerated automatically in AFS, preferring that data be reviewed carefully first.

PC Software was therefore developed to provide compliance agencies with a powerful tool that can perform and report on data classifications quickly, while not immediately affecting the AFS database. Once new classifications have been reviewed and approved, this utility can produce a file containing AFS format transactions representing the air program pollutant record (transaction 13, sequence 1) which may then be submitted to AFS.

While designed to provide an automated, standardized method of source classification, we soon found that the utility gave us the added benefit of classification conversion, since it will not

Continued From "Source Classifications in AFS" - Page 5

generate obsolete source classification codes. The utility will instead apply the following translation of existing values:

<u>FROM</u>	<u>TO</u>
A1	A
A2	SM
E2	SM
UK, Emissions > 0	B
E1	A
UK, Emissions = 0	C

But wait! Don't order your Ginsu knives yet! This utility has further advantages! It also will classify air program pollutant records representing one of the CAAA toxics, with a corresponding plant pollutant emissions value greater than 10 tons per year, as a major source. But even better, if the facility has toxic pollutants emitted at less than 10 tons, but an aggregate total of greater than 25 tons, it will classify the pollutant as a major, by generating an air program pollutant transaction using the generic "THAP" code.

Compliance Workshop Scheduled

by Mark Antell

A national EPA compliance manager's workshop has been scheduled for the week of September 16th, to be held in Washington D.C. These annual workshops are one of the most productive sessions we hold all year, and this one promises to be chock-full of good subjects. Major topics will include permit compliance tracking and CFR subpart reporting and manipulation, not to mention the future of compliance reporting.

We will be developing a pre-workshop planning package, which will help States and Regions provide input into our agenda as well. Since any plans or guidance for these subjects have a large impact on State and local agencies, I urge State agencies to participate in this preparation, by contacting Regional AFS managers with your thoughts and suggestions.



THE AFS\ENVIROFACTS Project Continues

by Lillian Bradley

The implementation schedule for the public data contained in AFS to be released within the Envirofacts database structure has been changed to the end of July, 1996. This project will make the AFS FOIA data available via the Internet. The OIRM Envirofacts team is programming a few "canned" reports for users; otherwise, users will have the option to use their own software to program customized request. It is hoped that once this data is available to the public via the Internet, the Regional FOIA request load might be reduced.

AFS\MACT User Friendliness Enhancements

by Lillian Bradley

The current AFS browse functionality is being enhanced to allow users to browse more than one facility at a time. This "new" multi-facility browse will offer three different options that will

Continued from "MACT User Friendliness" - Page 6

allow users to browse according to,

1. Facility Emissions
2. Total HAP Emissions
3. Facility MACT Determinations

Users may specify the geographical area of the facilities to be browsed by State, County, or non-attainment area. The information retrieved will also be subject to the pollutant and emissions type selection criteria specified in the browse request.

The Facility Emissions browse will provide emissions and general information for every facility that meets the user's selection criteria. The user will be able to view emissions data for a facility in the order of plant, stack, point and segment. The entire emissions information for a facility is displayed before the emissions data for the next selected facility is shown.

The Total HAP Emissions browse will provide total HAP plant emissions for annual estimated emissions, potential controlled emissions, potential uncontrolled emissions, and actual uncontrolled emissions for every facility that meet the user's selection criteria. The user will be able to view additional emissions information for any facility displayed on the browse screen by selecting the facility.

The Facility MACT Determinations browse option will provide information about MACT determinations performed for every facility that meets the user's selection criteria. The information provided for each facility will include the MACT category, subcategory, Section 112 indicator for the MACT determination and the date the MACT determination was performed.

The multi-facility browse enhancement is expected to be in production by the end of September.

OTHER USER FRIENDLINESS ENHANCEMENTS UNDER CONSIDERATION

One or both of the following enhancements will be undertaken within the next few months in our continuing effort to make AFS easier to use,

1. **TOGGLE BETWEEN UPDATE AND BROWSE.** This enhancement would allow the user to easily jump between corresponding update and browse functions displaying the identical record. This would be accomplished using a new programmable function key.

2. **CONDENSED POINT/SEGMENT UPDATE CAPABILITY.** a new update screen would be added to the update function of AFS to allow users to add or update point general, segment general and segment pollutant information in a condensed format without utilizing the current process which involves three sets of process and screens.

Upcoming Guidance for Evaluating MACT

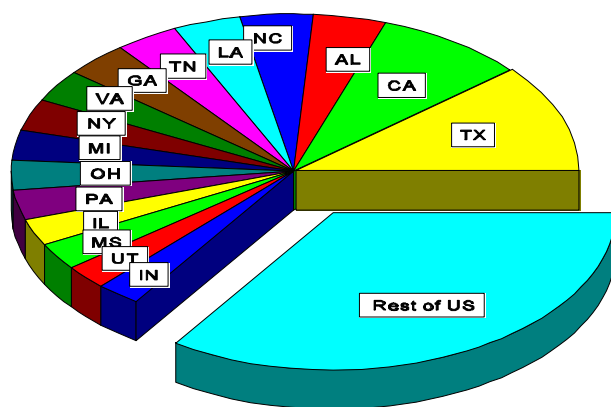
By Susan Fairchild-Zapata

The Emission Standards Division, ESD, which is the division of OAQPS responsible for promulgating MACT standards, is developing guidance on using the MACT database in AFS to determine MACT. This guidance, which is due out in August, will include methods used and recommended by ESD's engineers in determining MACT. The guidance will take State and local regulators through the input, retrieval and review of information and will clarify

Continued From "Upcoming Guidance for Evaluating MACT" - Page 7

Figure 1. HAP Emissions by State

from Anne Pope's Database



how to use the QA/QC tools to evaluate a MACT finding.

The Emission Standards Division (ESD) investigated which States had the most HAP emissions to report into the MACT database. Since the MACT database in AFS was not complete, ESD asked Anne Pope to retrieve from her database on the HAP emissions by State. Although Anne's database is not facility-

specific, the county level spatial resolution was reliable for our purpose of finding a good indication of the comparative HAP emissions by State. This exercise assumes there is a correlation between HAP emissions and the number of sources. This has not been proven to be true. If this principle is applied narrowly, i.e., for a small area and/or during a short time period, we believe the assumption can not be held with confidence. However, when applied as an estimated amount over a year's time, we believe the numbers are indicative of the total number of sources, although no correlation was developed to illustrate this. Figure 1 uses this data to illustrate that Texas and California together comprise about 20% of the Nation's emissions of HAP. ESD is investigating now whether some of the MACT partnerships funding can be used for helping States get their conversion programs fixed so that their State HAP data can be sent "seamlessly" into AFS for retrieval and use in the MACT reports for the MACT database.

Many States have made contributions to the MACT database by inputting their HAP data into AIRS/AFS. We recently queried the system and found that 40 States have at least one plant's HAP emissions in AFS. Table 1 to the right presents some of these by Region and State. We found that Colorado has input all their information for facilities that have emission reports filed for HAP emissions. The participation by the states listed in Table 1 illustrates that States are committed to the toxics program.

Table 1: Number of facilities with process-level data in AFS by Region and State.

<i>State</i>	<i>No. Plants</i>
<i>CT</i>	<i>213</i>
<i>PR</i>	<i>10</i>
<i>VI</i>	<i>6</i>
<i>VA</i>	<i>1469</i>
<i>IN</i>	<i>223</i>
<i>LA</i>	<i>132</i>
<i>KS</i>	<i>446</i>
<i>NE</i>	<i>168</i>

3As of 06/05/96

For more information, Susan Zapata can be reached at (919) 541-5167.

MACT Ranking Report

by Jake Summers

The maximum achievable control technology (MACT) ranking report was installed as a new report on the AFS Fixed Format Report Selection Menu in May. This report completes the base MACT project and makes it possible to retrieve the hazardous air pollutants (HAPS) in a report that provides preliminary information for making Case-by-Case MACT determinations. Now that the base project has been completed, the MACT data must be entered in order to be retrieved and analyzed by this report.

This report provides an initial analysis of the HAPS data entered for a specific industry. After the initial report has been created and the data has been quality assured, questionable data can be removed, and a final ranking can be computed.

The report options allow the selection of several report formats including: an abbreviated ranking report, a standard ranking report, a statistical and data analysis report, and a detailed report which is the plant emissions inventory report (AFP644). A report of missing data is also created as part of the above reports. The options also allow the user to create work files as well as the ranking file that could be used to create another ranking report after data quality assurance activities.

The second report options screen allows the selection of the ranking method as either the ratio of the estimated emissions and the annual process rate or the control efficiency achieved. The other ranking options include: separate ranking or combined ranking of HAPS in particulate and volatile form and rank HAPs collectively or individually. The default options are selected based on the ranking process recommended by the Emissions Standards Division.

After the report options have been selected, the user specifies the data selection using one or more of the following: MACT category, MACT category/subcategory, individual source classification codes (SCC), a SCC range, SCC combinations, year of emission inventory or range of years, and plant emission thresholds for total HAPS or an individual pollutant for different emission types. Geographic selection is also available by State, program/status area, or for the Nation.

After all report options and selections have been entered, the job control parameters are entered that control the batch retrieval and print processes. The actual batch job will execute based on the specified execution time and the computer center policies on job priorities.

Please call me or the AFS help line with any questions on this report.

HAP Data Needed For AFS\MACT Project

by Lillian Bradley

As MACT enhancements are being completed in AFS, the need for HAP data in AFS becomes more and more important. In order for the database modifications and the MACT fixed format report to be an effective analytical tool for Case-by-Case MACT determinations and standards, a significant amount of HAP data needs to be represented in selected source categories. Currently, we are focusing on those sources categories in the 7 and 10 year bins. We would like to encourage Regions to contact us if we can be of assistance to their States in getting data into AFS. If training is needed, we are looking at multi-Regional training later this year. Your suggestions are welcomed. Please contact me at 919-541-5694 or Jake Summers at 919-541-5695.

TITLE V PERMIT TRACKING DATA IN AFS

by Bill Frietsche

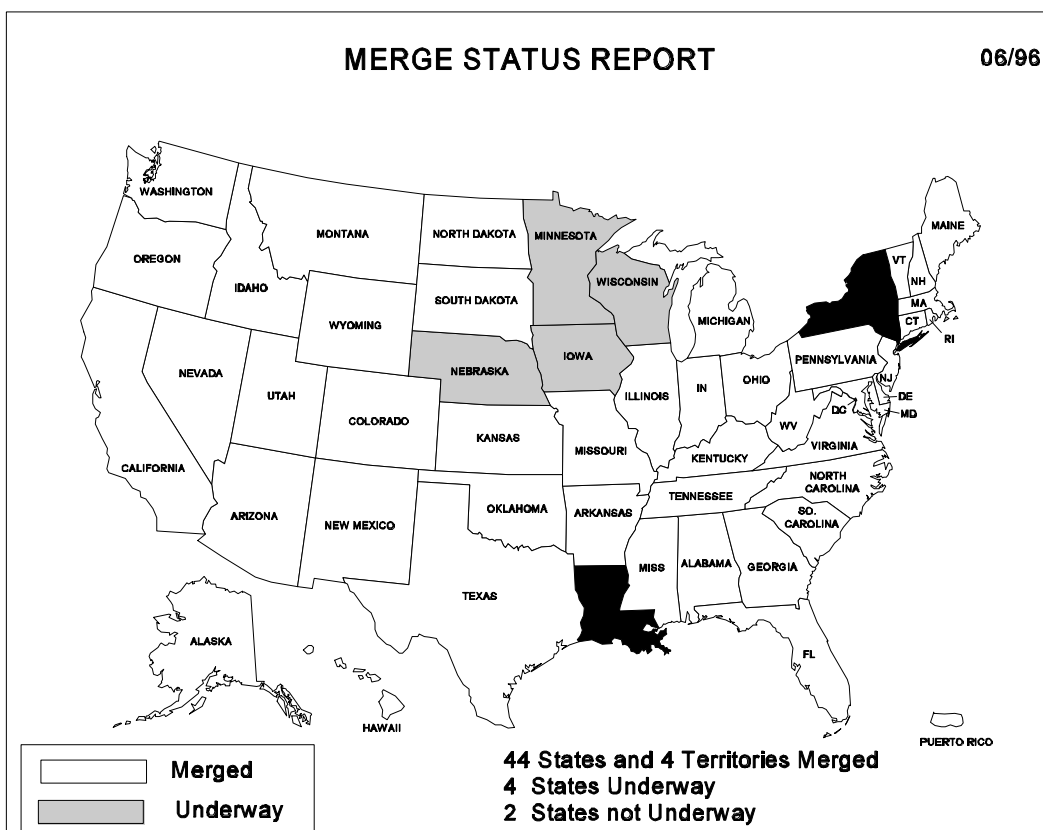
Permit data in AFS continues to slowly increase. This data consists of tracking the issuance process of Title V permits. Efforts are underway by the EPA regions and State/Local permitting authorities to develop procedures for getting the data into AFS once the permitting authorities begin drafting, proposing, and issuing permits. Since many states are not yet preparing or issuing permits, the reporting to AFS has been increasing slowly, rather than occurring all at once. There are currently 8 states reporting, with about 400 permit records in the system, and approximately 50 permits listed as issued.

If you have questions about what to do or what should be reported, please call me at (919) 541-5451, and I'll work with you and the EPA Regional contacts to answer the questions.

45 States Merged

by *Bill Frietsche*

Here is the status on merging of states in AFS as of June, 1996:



EIIP Improvements in Emission Inventory Data Management

by Rebecca Lee Tooly, EIIP Data Management Committee

The Emission Inventory Improvement Program (EIIP) is producing guidance that will result in higher quality data for air emission inventories. The EIIP is in its third year of existence, and has been made possible by cooperatively pooling resources of state and local agencies, EPA, and industry. These representatives have come together in technical committees to improve the process and procedures for compiling air emission inventories. The EIIP procedures documents provide a selection of methods for estimating emissions. The EIIP is also recommending and developing a standard data transfer format and transfer protocol to support the need to share consistent emission inventory data sets. The EIIP is not a regulatory body, and the success of this program depends on how much and how well other agencies or programs use the guidance.

The Data Management Committee (DMC) of the EIIP is developing the standard data transfer format. The initial and primary use of the EIIP format is for sharing the inventory data needed to support regional air quality modeling. The DMC began this project by constructing a data model to help organize and document the inventory data needed, and to establish the relationships among the data. The data model is not intended for use in optimizing end-user database design. The DMC consulted the other EIIP committees, i.e., point, area, mobile, and biogenic, to focus the respective inventory components in the data model. As the component data elements were applied in the model, the structure was continually challenged through mapping exercises by DMC participants to see if the data relationships held true. Mapping was done to assess whether state/ local databases, and the EPA's AIRS database, could convert from its data system relationships to those established in the EIIP data model. Much was learned from these mapping exercises and has resulted in a substantially improved data model, from that originally conceived.

The EIIP data model is now being finalized and is being used to develop the standard data transfer format. The DMC is developing a transfer format that will be compliant with existing Electronic Data Interchange (EDI) X.12 standards. EDI is a form of electronic reporting that is rapidly becoming a preferred mode for transferring data in business and government sectors, both nationally and internationally. By conforming to a standards-based approach for data transfer formats, EDI provides a transparent bridge between different hardware platforms and software applications. The EDI standards adopted for Federal initiatives are maintained under the auspices of the American National Standards Institute (ANSI), Accredited Standards Committee (ASC), as X.12 standards.

The EDI X.12 standards are supported by a wide array of commercial software packages and communications networks, and a growing reservoir of industry EDI expertise available both to EPA and the regulated community. The EDI X.12 standards define data transactions in a hierarchical structure, with flexibility in how the hierarchical portions, or segments, of the transaction are arranged. This arrangement provides for the universal application of the standard to specific data, and ready translation capabilities for that data. Most immediately, EDI will reduce data processing and preparation costs, improve control over data quality, and enormously increase the speed and ease of access to data submitted. Thus far, it appears that the EIIP data structure maps very well to existing EDI X.12 standard transactions.

A series of EDI pilot projects have/are being sponsored by the EPA's Office of Policy, Planning, and Evaluation (OPPE). Through these pilots, the Agency has been addressing some of the technical and institutional issues of EDI in EPA applications, and at the same time building institutional support for EDI within the Agency, among the States and in the regulated industries.

Continued From "EIIP Improvement in Emission Inventory Data Management" - Page 11

Strong support by regulated industries is evident in these pilots.

In summary, the products of the DMC are expected to include the following: the EIIP data model; the EDI X.12 standard transfer format for EIIP application; detailed implementation guidelines for using the EDI X.12 EIIP standard; a basic user's guide; and a shopper's guide on the commercially available EDI X.12 translation software. The EIIP is beginning a road show this summer for the EPA Regional Offices and state/ local emission inventory staff, to present these products, and to obtain input from intended users so that improvements may continue. The EIIP outlook for fiscal year 1997 is positive, and is planned as the time for testing and implementing the data management initiatives and products. In order to benefit from the EIIP EDI X.12 standard format, the EPA's AIRS system, like other state/ local end-user systems, will need to undergo some transformation. At a minimum this would consist of developing translation capability to the EIIP EDI X.12 format.

For more information on EIIP and specific membership and status reports on the DMC, please consult the CHIEF Bulletin Board of the EPA's Technology Transfer Network (TTN).

Call for AIRSLetter Articles

by Jonathan Miller

The AIRSLetter is a quarterly publication produced by the Information Management Group of EPA's Office of Air Quality Planning & Standards. It is intended to provide information related to AIRS and the subsystems associated within it. If you have some information that you would like to submit for publishing, please e-mail it to me at "miller.jonathan@epamail.epa.gov". Most word processing formats are acceptable.

AQS News

Standard Units for SO₂ Data Changing Soon

by Jonathan Miller

The units that the SO₂ standard is compared against has recently changed. Therefore, all the summary data, 3-hour averages and 24-hour averages that AIRS calculates for SO₂ will also be changing. We have nearly completed all the necessary software changes so AQS will be storing the data in parts per million (AIRS unit code of "007") instead of µg/m³ (AIRS unit code of "001"). This change will affect the way that you will view the **summary** files for 5-minute SO₂ data as well as the 1-hour, 3-hour, and 24-hour SO₂ data. This will also affect the way the reports and browse will reflect the 3-hour and 24-hour SO₂ data from the **raw** data files. Please keep in mind that you do not have to change the way you report the data. Just be aware if you are looking at data from these files, the standard unit for the SO₂ data will be parts per million.



This change will affect such standard reports as the Quick Look Report (AMP450), the Frequency Distribution Report (AMP230), and the Raw Data Listing Report (AMP350). If you have any software that uses work files generated from these reports, you may need to alter them to reflect this unit change. Please contact Jonathan Miller if you have any questions.

Two AQS Training Courses Held - Any Others?

by Jonathan Miller

AQS training courses were held in Denver, Colorado (May 20 - 23) and in Research Triangle Park, North Carolina (June 11 - 13). These were the last AQS training courses scheduled to be held this fiscal year. If you have a need for any AQS training, please let us know. You may contact Jonathan Miller or Michael Hamlin for more information.

Please keep in mind that training does not have to be limited to a "Basic AQS Functions" type of course. If you would like to know more about how to use Ad-Hoc Reports, How to Create Reports for Managers, Using Spreadsheets with AIRS Data, or other types of information, let us know and we will see what we can develop for you.

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